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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
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| 10/621,414 | 07/18/2003 | Avinash Chidambaram | 79115-25 /aba | 2788 | |
| 7380 SMART & BIO | 7590 06/05/2007 GGAR | EXAMINER | | | |
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| 900-55 METCALFE STREET OTTAWA, ON K1P5Y6 | | | ART UNIT | PAPER NUMBER | |
| CANADA | | | | 2179 | |
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| Office Action Summary To MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A HONTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extension for may be available under the provisions of JC FR 1.136(). In or evert, however, may reply be limitely find a communication of JC FR 1.136(). In or evert, flowers, may reply be limitely find a communication of JC FR 1.136(). In or evert, flowers, may reply be limitely find a communication of JC FR 1.136(). In or evert, flowers, may reply be limitely find a communication. Failure to repeat 3 key (MONTH) from the mailing date of this communication occurs ABANDONED 3 U.S € 1.33(). Any reply received by the Orica lize that of the communication occurs and ABANDONED 3 U.S € 1.33(). Any reduce they completely replaced to replace and provided by the pastalogue and wile expense 3 key (MONTH) from the mailing date of this communication. Plant from the mailing date of this communication occurs and ABANDONED 3 U.S € 1.33(). Any reduce they communication occurs and application is an includition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-25 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 7) Claim(s) is/are allowed. 8) Claim(s) is/are allowed. 10) The drawing(s) filed on is/are: all accepted or bl—drawing(s) is objected to See 37 CFR 1.54(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 | | Application No. | Applicant(s) | | | | |
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| Steven B. Theriault 2179 | | 10/621,414 | CHIDAMBARAM ET AL. | | | | |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address → Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be evaluable under the provisors of 37 CFR 1.18(a), in no event however, may a reply be briefy fled If NO period for reply a specified above, the maximum stabutory period will apply and will acide SIX (b) MONTHS from the mailing date of this communication. Fallows the received by the Office later than these maximum stabutory period will apply and will acide SIX (b) MONTHS from the mailing date of this communication. Fallows the reply willing the set or excluded period for expert will be provided by the communication of the communication. Fallows the reply willing the set or excluded period for expert will be stable, and a set of this communication. Fallows the scenario of the Communication (s) filed on 16 February 2007. 20 ☐ This action is FINAL. 20 ☐ This action is non-final. 31 ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ☐ Claim(s) 1-25 is/are pending in the application. 4) ☐ Claim(s) 1-25 is/are allowed. 6) ☐ Claim(s) 1-25 is/are allowed. 7) ☐ The above claim (s) 1-25 is/are allowed. 8) ☐ Claim(s) 1-25 is/are allowed. 8) ☐ Claim(s) 1-25 is/are allowed. 9) ☐ The drawing(s) filed on 1-25 is/are allowed. 10 ☐ The drawing(s) filed on 1-25 is/are allowed. 11 ☐ Claim(s) 1-25 is/are allowed. 12 ☐ Claim(s) 1-25 is/are allowed. 13 | Office Action Summary | Examiner | Art Unit | | | | |
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| WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be examinate under the promise of 37 CFR 1.1363. In an event, however, may a reply be shown fell after SIX (i) MONTHS from the making date of this communication. Fillular to in pay within the act or extended period for reply will, by stakes to be bearne #ABANDER (34 U.S. 6, 133). Any veply received by the Office later than three months after the mailing date of this communication. Fillular to make them dejulation. Fillular to make them dejulation. Fillular to make them dejulation. **Status** 1) □ Responsive to communication(s) filled on 16 February 2007. 2a) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. **Disposition of Claims** 4) □ Claim(s) 1-25 is/are pending in the application. 4a) Of the above claim(s) □ is/are withdrawn from consideration. 5) □ Claim(s) 1-25 is/are rejected. 7) □ Claim(s) 1-25 is/are rejected. 7) □ Claim(s) 1-25 is/are objected to. 8) □ Claim(s) 1-25 is/are objected to. 8) □ Claim(s) 1-26 is/are objected to by the Examiner. 4pplication Papers 9) □ The specification is objected to by the Examiner. Application Papers 9) □ The drawing(s) filed on □ is/are: a) □ accepted or b) □ objected to by the Examiner. Application Papers 9) □ The oath or declaration is objected to by the Examiner. Note the drawing(s) be objected to See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 3. □ Corpiles of the priority documents have been received in this Na | | | | | | | |
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| 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO/SB/08) 5) ☐ Notice of Informal Patent Application | | | | | | | |
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DETAILED ACTION

- 1. This action is responsive to the following communications: Amendment filed 02/16/20073.
- 2. Claims 1 -25 are pending in the case. Claims 1, 18, and 19 are the independent claims. Applicant is advised that a new examiner has been assigned to the case.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 1-25 are rejected under 35 U.S.C 103(a) as being unpatentable over Goodrich et al (hereinafter Goodrich) U.S. Patent No. 7,111,018 filed Feb. 4, 2003 in view of Siemens et al (hereinafter Siemens) "System Simulator for Operations" June 2002.

In regard to **Independent claim 1,** Goodrich teaches a graphical interface method for producing configuration information for control apparatus for a power system including a plurality of power supplies, comprising the steps of, using a processor:

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Receiving information relating to characteristics and connections of the plurality of power supplies, said information determining a topology of the power system (Goodrich column 9, lines 37-67 and column 10, lines 15-34) Goodrich teaches the receipt of a file from an EMS where the information is used to construct a topology of the electrical power system.

 Displaying on a display device a graphical display representing the topology of the power system (Goodrich figures 22-23) Goodrich shows a network topology.

Goodrich does not expressly teach:

- Receiving user input information to determine sequencing of the plurality of power supplies;
- Displaying on the display device a graphical display representing the sequencing of the plurality of power supplies;
- Producing said configuration information for the control apparatus consistent with the displayed topology and sequencing of the plurality of power supplies.

However, Siemens teaches a power system simulator that performs a sequence of operations in sequencing the output of power supplies (See page 4, Short circuit analysis). Siemens also teaches displaying the sequencing information (See page 7). Siemens also shows a topology diagram and on the state diagram and after running through the sequence operation the diagram displays information depicting the sequenced power circuits as well as the configuration information that is consistent with the displayed topology. Siemens and Goodrich are analogous art because they both teach providing computer systems to the EMS providers for the purposes of displaying information about a given network so that a user can perform operations on the network.

Accordingly, it would have been obvious to one of ordinary skill in the art at the time of the invention, having the teachings of Siemens and Goodrich in front of them, to modify the network topology diagrams of Goodrich to include a sequencing of the power circuits to check the network connections that are shown in the diagram. Goodrich teaches a process of checking the status of the network objects in the diagrams (See column 16, lines 24-51). The motivation to

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modify the system of Goodrich with the system of Siemens comes from the suggestion in Siemens to provide the simulator software to EMS providers for the purposes of analyzing transmission networks (See page 1).

With respect to **dependent claim 2**, Goodrich teaches a method wherein the step of receiving said information determining a topology of the power system comprises receiving user input information for identifying information for at least one of the plurality of power supplies in a database (Goodrich column 14, lines 20-30 and Figures 24-29).

With respect to **dependent claim 3**, Goodrich teaches a method wherein the step of producing said configuration information comprises deriving information for said at least one of the plurality of power supplies from the database (Goodrich column 14, lines 45-60). Goodrich teaches the purpose of the invention is to derive from the database the imported files to show the topology of two EMS providers.

With respect to **dependent claim 4,** Goodrich teaches a method wherein the step of displaying a graphical display representing the topology of the power system comprises displaying icons representing the plurality of power supplies and paths extending to and from the icons representing input and output voltage lines of the power supplies (See figure 26, Topology based on base voltages).

With respect to **dependent claim 5**, Goodrich teaches a method wherein the step of displaying a graphical display representing the sequencing of the plurality of power supplies comprises displaying at least some of said icons representing the plurality of power supplies in relatively different positions along respective ones of said paths (Goodrich Figures 22-29) Goodrich shows Icons for different power supplies in different location in the topology and with different symbols.

With respect to **dependent claims 6 and 7**, as indicated in the above discussion, Goodrich in view of Siemens teaches every element of claim 5:

Goodrich does not expressly teach a method wherein the step of displaying a graphical display representing the sequencing of the plurality of power supplies further comprises displaying at least one additional symbol representing said sequencing. However, this limitation would have been obvious to one of ordinary skill in the art at the time of the invention, in view of Siemens, because Siemens shows arrows representing the sequencing (See page 7) e.g. – 376mv to pacific.

With respect to **dependent claims 8 -10**, Goodrich teaches a method wherein the step of displaying a graphical display representing the power system comprises displaying icons representing the plurality of power supplies (See Figures 22-29) Goodrich shows the power supplies displayed as Icons.

Goodrich does not expressly teach the displaying the sequencing of the system and at least one additional symbol representing said sequencing. However, this limitation would have been obvious to one of ordinary skill in the art at the time of the invention, in view of Siemens, because Siemens shows arrows representing the sequencing (See page 7) e.g. –376mv to pacific. Siemens also shows a number on the top of each of the Icons that represent the power supplies (See page 7, No. 2, 4, 5 and 6).

With respect to **dependent claim 11**, Goodrich teaches a method wherein the step of displaying a graphical display representing the power system further comprises displaying paths extending to and from the icons representing input and output voltage lines of the power supplies (Goodrich figure 26) Goodrich shows the Topology based on voltages and paths to each connected supply. Goodrich does not teach displaying the sequencing of the system and displaying on the

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sequenced paths the voltages of the power supplies. However, this limitation would have been obvious to one of ordinary skill in the art at the time of the invention, in view of Siemens, because Siemens shows the voltages of the supplies representing during the sequencing (See page 7) 213 kv.

With respect to **dependent claims 12 and 13**, as indicated in the above discussion, Goodrich in view of Siemens teaches every element of claim 1.

Goodrich does not expressly teach wherein the step of receiving user input information to determine sequencing of the plurality of power supplies comprises the steps of displaying options for possible sequencing of each of the plurality of power supplies after another of the plurality of power supplies, and determining sequencing in response to user input selection of said options. However, this limitation would have been obvious to one of ordinary skill in the art at the time of the invention, in view of Siemens, because Siemens shows the process of selecting the type of sequencing the user wishes to perform (See page 5).

With respect to **dependent claims 14**, as indicated in the above discussion, Goodrich in view of Siemens teaches every element of claim 1.

Goodrich does not expressly teach wherein the graphical display representing the sequencing of the plurality of power supplies represents startup sequencing of the power supplies, and the step of producing said configuration information for the control apparatus comprises producing said configuration information for startup sequencing of the power supplies consistent with the displayed sequencing and for normal shutdown of the power supplies with sequencing reversed from the startup sequencing. However, this limitation would have been obvious to one of ordinary skill in the art at the time of the invention, in view of Siemens, because Siemens shows the process of using a dispatchers power flow process where a user on the interface can adjust

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power flow to various sections of the system through the interface, which would include during the sequencing of power supplies (See page 2).

With respect to **dependent claims 15**, Goodrich teaches the method wherein the steps of displaying comprise representing different types of power supply by different icons (Goodrich figures 22-29) Goodrich shows different icons for the different types of power supplies.

With respect to **dependent claims 16**, Goodrich teaches a computer readable storage medium having software stored thereon for instructing a processor to implement the method of claim 1 (See column 9, lines 19-35).

With respect to **dependent claim 17**, Goodrich teaches a method of configuring control apparatus for a power system including a plurality of power supplies, comprising the steps of producing configuration information for the control apparatus using the method of claim 1, and transferring the configuration information to the control apparatus (See column 14, lines 1-20).

In regard to **claims 18 and 19**, claims 18 and 19 reflect methods for generating an interface with substantially similar subject matter as claim 1 and comprising computer readable instructions via a processor for performing the steps of method claim 1 and is rejected along the same rationale.

With respect to **dependent claim 20**, Goodrich teaches a method wherein the step of displaying a graphical display representing the power supplies and their sequencing comprises displaying icons representing the plurality of power supplies and displaying paths extending to and from the icons representing input and output voltage lines of the power supplies (Goodrich figure 26)

Goodrich shows the Topology based on voltages and paths to each connected supply. Goodrich

does not teach displaying the sequencing of the system and displaying on the sequenced paths the voltages of the power supplies. However, this limitation would have been obvious to one of ordinary skill in the art at the time of the invention, in view of Siemens, because Siemens shows the voltages of the supplies representing during the sequencing (See page 7) 213 kv.

With respect to **dependent claim 21**, Goodrich teaches a method wherein the step of displaying icons comprises representing different types of power supply by different icons (Goodrich figures 22-29) Goodrich shows different icons for the different types of power supplies.

With respect to **dependent claim 22**, Goodrich teaches a method wherein the step of displaying further comprises displaying at least some of said icons representing the power supplies in relatively different positions along respective ones of said paths to represent the sequencing of the power supplies (Goodrich Figures 22-29) Goodrich shows Icons for different power supplies in different location in the topology and with different symbols.

With respect to **dependent claims 23 and 24**, as indicated in the above discussion, Goodrich in view of Siemens teaches every element of claim 20.

Goodrich does not expressly teach a method wherein the step of displaying a graphical display representing the sequencing of the plurality of power supplies further comprises displaying at least one additional symbol representing said sequencing. However, this limitation would have been obvious to one of ordinary skill in the art at the time of the invention, in view of Siemens, because Siemens shows arrows representing the sequencing (See page 7) e.g. – 376mv to pacific.

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With respect to **dependent claim 25**, Goodrich teaches a computer readable storage medium having software stored thereon for instructing a processor to implement the method of claim 19 (See column 9, lines 19-35).

It is noted that any citation to specific, pages, columns, lines, or figures in the prior art references and any interpretation of the references should not be considered to be limiting in any way. A reference is relevant for all it contains and may be relied upon for all that it would have reasonably suggested to one having ordinary skill in the art. In re *Heck*, 699 F.2d 1331, 1332-33,216 USPQ 1038, 1039 (Fed. Cir. 1983) (quoting In re *Lemelson*, 397 F.2d 1006,1009, 158 USPQ 275, 277 (CCPA 1968)).

Response to Arguments

Applicant's arguments, filed 02/16/2007, with respect to the rejection(s) of claim(s) 1-25 under Collmeyer have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Goodrich in view of Siemens.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven B. Theriault whose telephone number is (571) 272-5867. The examiner can normally be reached on M, W, F 10:00AM - 8:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Weilun Lo can be reached on (571) 272-4847. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SBT

WEILUN LO
SUPERVISORY PATENT EXAMINER